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Substitute Specification  
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**SPECIFICATIONS****TITLE OF THE INVENTION**

Method for processing magnetic resonance imaging image information and magnetic resonance imaging system

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**CROSS REFERENCE TO RELATED APPLICATIONS:**

This application is based upon and claims the benefit of priority from the prior Japan Patent Application No. P2002-298642, filed October 11, 2002, the entire contents of which are incorporated herein by reference.

10 **BACKGROUND OF THE INVENTION AND RELATED ART STATEMENT**

This invention relates to a method for processing magnetic resonance imaging image information that is preferably used for a nondestructive inspection of an internal structure of a three-dimensional object such as a human body and also relates to a magnetic resonance imaging system used in the method.

15 Conventionally, X-ray photography has been widely used for inspecting an internal structure of a human body. The X-ray irradiating a human body transmits an image of the human body, however, transmittance becomes low in bones. Then fracture of the bone can be diagnosed with an X-ray photograph.

However, there is a problem that X-rays cannot irradiate often on a human body  
20 because an enormous quantity of X-rays irradiated on a human body will damage cellular of the human body.

In order to solve this problem, an approach has been made that a magnetic field is irradiated on a human body so as to inspect an internal structure of the human body with magnetic resonance spectral intensity distribution by making use of a magnetic resonance phenomenon.

25 "Research of Structural Image Process for Optical Brain Function Measurement" by Masahiko Maho, Hirofumi Hamada, Naohiro Fujikawa, Hideaki Ninomiya, Hideo Eda and Satoru Miyachi, p55 of the Proceedings of Japan Soc. ME & BE Conference (May, 2002).